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Center for Advanced Infrastructure and Transportation

PROJECT OVERVIEW REPORT

1. UTC Identifying Number
   69A3551847102

2. Center Identifying Number
   CAIT-UTC-REG42

3. Project Title
   Enhanced Maritime Asset Management System (MAMS)

4. Principal Investigator & Contact Information
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7. Project Description
   Rutgers CAIT has worked with NJDOT to develop a prototype Maritime Asset Management System (MAMS) that can be used to meet the transportation asset management plan (TAMP) requirements and aid with capital planning and resource allocation. The state-of-the-art TAM approach has been implemented in a desktop-based user interface software application. The goal of the project is renovate the current MAMS prototype software to improve the user experience and extend the functionality of the tool.

8. Implementation of Research Outcomes (or why not implemented)
   The intended outcome of the project is the development of an asset management software that embeds advanced analytical models with input-output user interface that can be used to run the analysis, produce results and generate reports for the NJDOT. The tool will be continually improved and maintained to produce a more advanced product that can be used by other transportation agencies.

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9. Impacts/Benefits of Implementation (actual, not anticipated)
   To Be Determined

10. Dates and Budget
    Start date: 11/1/2020
    End date: 2/28/2021
    UTC (CAIT) Dollars: $20,000
    Cost Sharing: $0.00
    Total Dollars: $20,000

11. Keywords
    Infrastructure asset management, life cycle cost analysis, capital planning, maritime

12. Web Links (Reports and Project Website)
    https://cait.rutgers.edu/research/enhanced-maritime-asset-management-system-mams/